

MICROCOPY RESOLUTION TEST CHART



SURVEY OF CONSUMER ATTITUDES AND

AWARENESS OF THE METRIC CONVERSION OF

DISTILLED SPIRITS CONTAINERS

A Special Report for:

A Study of Metric Conversion of Distilled Spirits Containers: A Policy and Planning Evaluation

December 1, 1981

for:

The United States Metric Board Arlington, VA.



by:

**APPLIED CONCEPTS CORPORATION** 

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The survey was conducted as part of a policy and planning evaluation study. The overall study was an examination of a completed private sector conversion to the metric system, in the light of the US Metric Board's planning guidelines and procedures. The conversion of distilled spirits containers took place prior to the establishment of the USMB. The study's objective was to use the completed version to determine if the guidelines and related procedures were adequate to help the conversion process. If they were not, the study was designed to provide suggestions for improvement.

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# SURVEY OF CONSUMER ATTITUDES AND AWARENESS OF THE METRIC CONVERSION OF DISTILLED SPIRITS CONTAINERS

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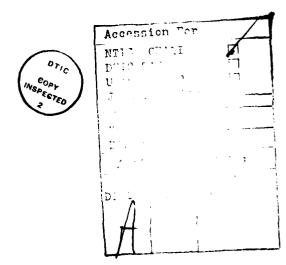
#### FOREWORD

This report was prepared by Applied Concepts Corporation for the United States Metric Board (USMB) under contract number AA-80-SAC-X8602 with the U.S. Department of Commerce, acting as agent for the USMB. Opinion Research Corporation, under subcontract to Applied Concepts, conducted the survey whose results are reported herein.

The survey was part of a larger study, a policy and planning evaluation. While this report stands alone, the reader may wish to refer to other reports prepared by Applied Concepts Corporation in the course of the study:

- A Study of Metric Conversion of Distilled Spirits Containers: A
  Policy and Planning Evaluation. Task 1 Comprehensive Report on
  the Conversion Process, August 1981.
- A Study of Metric Conversion of Distilled Spirits Containers: A Policy and Planning Evaluation. Final Report on Findings and Lessons Learned, October 1981.

Copies may be obtained by contacting the United States Metric Board or Applied Concepts Corporation.



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#### I. CONSUMER SURVEY FINDINGS

#### A. BACKGROUND

The survey reported here was conducted as part of a policy and planning evaluation study. The overall study was an examination of a completed private sector conversion to the metric system, in the light of the US Metric Board's planning guidelines and procedures. The conversion of distilled spirits containers took place prior to the establishment of the USMB. The study's objective was to use the completed version to determine if the guidelines and related procedures were adequate to help the conversion process. If they were not, the study was designed to provide suggestions for improvement.

This consumer survey was conducted to assess current attitudes, awareness, and behavior as they relate to information needs of the customer in making marketplace purchase decisions.

It is important to note that the survey was not intended to determine opinions about the conversion itself. The conversion process, so far as the introduction of metric-sized containers is concerned, started with the beginning of an optional period on October 1, 1976. As of January 1, 1980, all newly filled distilled spirits containers had to be in metric sizes; retailing of customary sized containers continued until supplies of spirits bottled prior to January 1, 1980 were exhausted. By the end of 1977, much of the retail stock of distilled spirits was in metric sizes. The survey was conducted 3 to 4 years after metric sizes began appearing in retail outlets. Thus, attitudes about the conversion process itself were felt to be inappropriate topics for query after such a lengthy period. The only exception to this general rule was an inquiry about how consumers learned about the metric sizes.

#### B. SURVEY DESCRIPTION

This report presents the findings of a telephone interview survey conducted among a probability sample of 2,006 adults, 18 years of age or over, living in private households in the continental United States. The interviewing was conducted during the period July 7 through August 8, 1981. The interviews were conducted by Opinion

Research Corporation (ORC). The survey questionnaire was developed by Applied Concepts Corporation with the assistance of USMB Office of Research staff. A copy of the questionnaire is included, beginning on page 9 of this report. The OMB approval number for this information collection is 3327-0007.

To ensure representativeness of the sample, data were subjected to ORC's proprietary weighting program, which takes into account six different demographic variables. Therefore, the results may be projected to the total U.S. non-institutionalized population 18 years of age and over. A Technical Appendix is attached which describes in detail, the sampling methods and other procedures employed in the survey, as well as characteristics of the sample and sampling tolerances of survey results.

#### C. SURVEY OBJECTIVES

This survey had four objectives:

- 1. To determine the extent and level of awareness of the existence of metric-sized distilled spirits containers.
- 2. To determine prevalent consumer attitudes regarding metric-sized distilled spirits containers.
- 3. To determine the extent of consumer confusion over the metric distilled spirits sizes.
- 4. To determine how consumers learned about the metric distilled spirits sizes.

#### D. SUMMARY OF FINDINGS

The findings for each objective are summarized below.

### Objective 1: To determine the extent and level of awareness of the existence of metric distilled spirits containers.

Distilled spirits purchasers are not "thinking metric" regarding distilled spirits container sizes. When asked what size or sizes they normally buy, only 10% responded

in metric measure. However, more than one-quarter (27%) of those who gave the sizes they buy in customary measure responded to a mild probe so as to indicate that they are aware they are actually getting metric sizes. Thus, approximately one-third (34%) of all spirits purchasers are actively aware that spirits are sold in metric-sized containers.

When the two-thirds (66%) of all spirits purchasers without an active awareness of metric spirits sizes were directly asked whether they were aware of metric sizes, approximately three-fifths (59%) answered affirmatively. This raises the percentage of spirits purchasers with at least a "recall" knowledge of the existence of metric sizes to 73%. Based upon the results of this survey and our past experience with distilled spirits consumer purchasing practices, we interpret these figures as indicating that the percentage of consumers who consciously maintain a metric awareness in making purchase decisions is between 10% and 34%. We conclude that the extent of awareness of the existence of metric distilled spirits sizes is moderately high. The level of awareness, and thus the degree that the metric knowledge is used in making purchase decisions, is substantially lower. Extent refers to the scope or range of awareness, while level refers to rank or position, a more precise understanding.

### Objective 2: To determine prevalent consumer attitudes regarding metric distilled spirits containers.

Spirits purchasers appear to be generally satisfied with the available metric container sizes. Only 5% of spirits purchasers stated they were not satisfied with the available sizes. About 14% had difficulty making price comparisons.

### Objective 3: To determine the extent of consumer confusion over the metric distilled spirits sizes.

The word "confusion" here was taken to be represented by the extent to which consumers know the metric sizes.

The bulk of spirits consumers do not know the amount of contents of the products they buy. Overall, at least 78% of spirits purchasers do not know the amount of contents of <u>any</u> spirits product they purchase. At least 50% of all metric-aware

respondents, and 63% of all respondents, did not know any of the six allowable distilled spirits sizes. 81% of those who initially gave a customary size for the size they buy but later evidenced a metric awareness, did not know the metric equivalent for any size they buy.

### Objective 4: To determine how consumers learned about the metric distilled spirits sizes.

Reading the metric contents on the bottle or label appears to have been the most common means of learning about the metric sizes. 42% of all metric-aware respondents learned of the metric sizes in this manner, while 19% learned of them at the liquor store, 15% from newspapers, and 27% from other miscellaneous sources.

It should be noted that these findings have several important limitations. They reflect the effectiveness of the various information dissemination media only to the extent that they were actually used. They do not shed light on the adequacy of the information dissemination efforts that were made in this conversion. Finally, they involve recollections that go back up to four years and thus may not be entirely accurate. They should be interpreted as how respondents remember they learned of metric sizes.

#### E. SURVEY RESULTS FOR EACH QUESTION

The following paragraphs review the results for each of the 10 questions which were asked in the survey. They focus on the aggregate group of respondents and do not analyze differences across demographic, locational, or other subgroupings. For almost all questions, there was a very high correspondence of results across subgroupings. Subgroup responses and differences can be analyzed by referring to the detailed tabulations of results presented in Section III. The use of the flowchart on page 7 will facilitate the reader's understanding of the following results.

- Q.1. Almost half (48%) of all survey participants reported they purchase distilled spirits.
- Q.2. When asked what sizes they normally buy, 90% of all spirit purchasers g ve their reply or replies in customary measure o iv. On! 20% responded in metric measure. Approximately

4% gave both metric and customary sizes. The most frequently given customary sizes were: "fifth" (49%), quart (27%), pint (16%), and half-gallon (11%). The only metric sizes given were: liter (7%), 750 mi (2%), 1.75 liter (2%), and 500ml (<1%).

- Q.3. 91% of all spirits purchasers stated they were generally satisfied with the bottle sizes available. Only 5% were not satisfied. 4% had no opinion.
- Q.4. Of those that were not satisfied with the sizes available (that is the 5% from question 3), the most frequently given reasons were as follows: 23% did not like metric sizes; 22% wanted a larger size; 12% had difficulty making price comparisons; 10% wanted more sizes; 7% wanted a smaller size; and 29% gave numerous uncategorized reasons.
- Q.5. 14% of all spirits purchasers (regardless of whether or not they are satisfied with the sizes) stated they had either alot (4%) or some (10%) difficulty in making price comparisons between different sizes of the same brand. 20% stated they had not much difficulty, 38% stated that they had no difficulty at all, and 26% stated that they do not try to make price comparisons.
- Q.6. Of the 90% of all spirits purchasers who responded in customary measure only when asked what size(s) they buy in question 2, 27% mentioned the change to metric sizes when asked if they had noticed any changes in liquor bottle sizes in the past several years. Thus, 34% of all spirits purchasers either answered in metric measure initially or evidenced an awareness of the existence of metric sizes after a mild probe.
- Q.7 When the respondents who gave customary sizes only for the sizes they buy in question 2, and who did not respond to the mild probe in question 6 with a metric awareness, were asked directly if they were aware that spirits are now in metric sizes, 59% said yes.
- Q.8. The predominate means by which metric-aware respondents stated they became aware of metric sizes was by reading the bottle label (42%). 19% stated they became aware of metric sizes from displays, brochures, or orally at the liquor store, 15% from newspapers, and the rest from other sources or didn't remember. Mail, family/friends, radio/television, and school/educational means each had only a few percentage points.
- Q.9. Respondents who gave the size(s) they buy in question 2 in customary measure only but who later evidenced they were aware of metric sizes were asked to give the nearest metric "equivalent" size for each size they buy. 81% gave either all incorrect answers or stated they did not know any. 15% gave the correct metric "equivalent(s)", and 4% gave some correct and some incorrect.

Q.10. When metric-aware respondents were asked to list as many of the metric sizes as they could, 58% gave either incorrect sizes or stated they did not know any. The most commonly recognized size was the 1 liter, with 39% recognition, followed by the 500 ml and 750 ml (10% each), the 1.75 liter (8%), and the 50 ml and 200 ml (1% each).

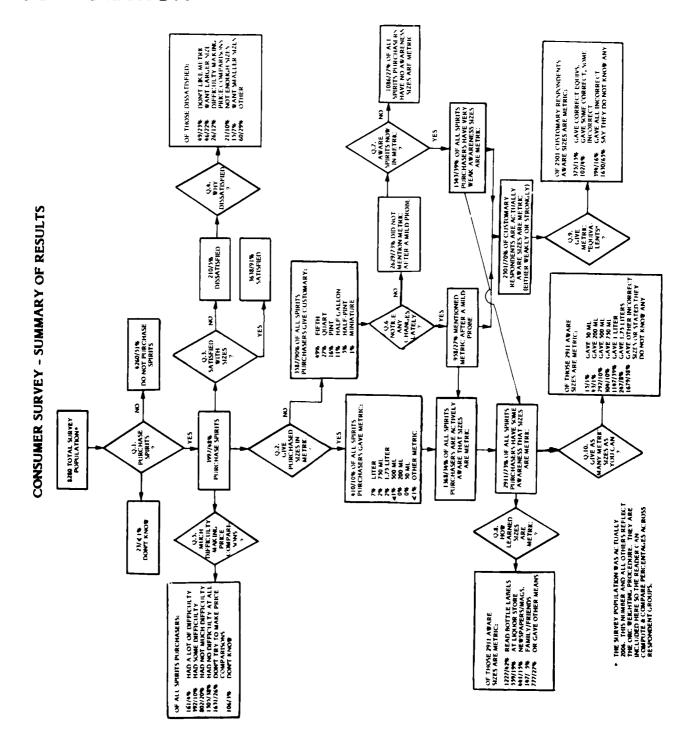
#### F. OTHER FINDINGS

- 1. 73% of all spirits purchasers showed at least some evidence of an awareness of the existence of metric sizes.
- 2. For all distilled purchasers:
  - a. 10% gave sizes they buy in metric measure.
  - b. 24% gave the sizes they buy in customary measure only, but evidenced a metric awareness after a mild probe.
  - c. 39% gave the sizes they buy in customary measure only, did not respond to the mild probe with a metric awareness, but answered affirmatively when asked directly if they were aware that distilled spirits were sold in metric containers.
  - d. 27% evidenced no awareness of the existence of metric sizes.
- 3. At least 78% of all spirits purchasers are unaware of the amount of contents in the containers they purchase.
- 4. At least 63% of all spirits purchasers do not know any of the 6 allowable metric container sizes.
- 5. At least 50% of all metric-aware respondents could not name any of the 6 allowable metric container sizes.

#### G. GRAPHICAL PRESENTATION OF RESULTS

The next page contains a summary of the consumer survey results in graphic form. It describes the screening process in the questioning, the results for each

question, and the recombining of results from various questions to obtain the percentages presented in the findings above. Both frequencies (the raw scores) and percentages are presented. The percentages sometimes do not total to 100%, due to possible multiple responses, rounding, or because no answer/don't know responses are not displayed.



The following sections present the survey questions which were asked (Section II) and the tabulation of the results for each question, with the demographic breakdown of responses (Section III). These are followed by a Technical Appendix (Section IV) which describes the sampling method and procedures and sampling tolerances of the survey results.

### SECTION II CONSUMER SURVEY INSTRUMENT

NOTE: INTERVIEWER READS POSSIBLE RESPONSES ONLY ON QUESTION #5. ALL OTHER QUESTIONS ARE OPEN-ENDED.

1.	Do you ever purchase dist not beer or wine.	tilled spirits? By disti	lled spirits, I mean hard liquo	r,
		go to question #2. ask only background qu	estions.	
2.	What size or sizes of distill	led spirits do you norm	ally buy?	
	(Customary)	(Metric)	(Units Not Specified)	
1. 2. 3. 4. 5. 6. 7.	Quart 13.	50 ml 200 ml 500 ml 750 ml 1 liter 1.75 liter Other	17. Other 18. Other	-
3.	available?  1. Yes If yes,	sfied with the bottle skip to question #5. go to question #4.	sizes in which hard liquor	is
4.	<ol> <li>Need to offer a large</li> <li>Need to offer a small</li> </ol>	ler size ce comparisons		
5.	How much difficulty do yo sizes of the same bran RESPONSES.)	ou have in making price of of liquor? (INT	e comparisons between differen ERVIEWER READS POSSIBL	nt E
	<ol> <li>Alot of difficulty</li> <li>Some difficulty</li> </ol>			

	3. 4. 5. 6.	Not much difficulty No difficulty at all Don't try to make price comparisons Don't know
	#8.	ESPONDENT GAVE METRIC SIZE(S) IN QUESTION #2, SKIP TO QUESTION IF RESPONDENT DID NOT GIVE METRIC SIZE(S) IN QUESTION #2, GO TO STION #6.)
6.		changes, if any, have you noticed in hard liquor bottle sizes during the past al years?
	1. 2. 3. 6.	Metric (liters, milliliters, etc.) None Other Other
	(IF N GO T	OTICED METRIC, SKIP TO QUESTION #8. IF DID NOT NOTICE METRIC, O QUESTION #7).
7.	Are milli	you aware that hard liquor is now sold in metric sizes, that is, by the liter and liter?
	1. 2.	Yes IF YES, GO TO QUESTION #8 No IF NO, TERMINATE INTERVIEW
8.	How	did you become aware of the change in liquor bottles to metric sizes?
	1. 2.	Mailouts from the retailer  Display signs, handouts, or orally from the retailer
	3. 4.	Newspaper or magazine articles
	5.	Newspaper or magazine advertisements  Was told about it by friend or family
	6.	Read the size on the bottle or bottle label
	7.	Radio or television
	8. 9.	School or educational system  Don't remember or don't know
	10.	Other
	#10.	ESPONDENT GAVE METRIC SIZE(S) IN QUESTION #2, SKIP TO QUESTION IF RESPONDENT DID NOT GIVE METRIC SIZE(S) IN QUESTION #2, GO QUESTION #9).
9.	for 1	er you mentioned that you normally buy (REFER TO QUESTION #2) sizes. If you tell me what is (are) now the nearest equivalent metric size(s) offered this (each of these)? (INTERVIEWER REFER TO QUESTION #2 AND PARE RESPONSE(S) TO THIS QUESTION WITH ENTRY (IES) IN METRIC UMN OPPOSITE THE CUSTOMARY SIZE(S) MENTIONED.)
	1. 2.	All responses correct Some responses correct/some incorrect

	3. 4.	All responsions Don't know	ses incorrect
10.	Plea	ase tell me a	s many of the new metric sizes of hard liquor as you can.
	1.	50 ml	
	2.	200 ml	
	3.	500 ml	The state of the s
	4.	750 ml	
	5.	l liter	
	6.	1.75 liter	
	7.	Other	***************************************
			*Benjamining
	8.	Other	

### SECTION III DETAILED TABULATIONS

#### A. HOW TO READ THE TABLES

The following tables present detailed findings of survey results. The tables are percentaged horizontally and, therefore, should be read across. The first figure shows the unweighted total number of actual respondents; the second figure, the weighted number (the figure resulting from the weighting process). All other figures in the body of the tables are percentages based on the weighted number of interviews.

Percentages normally add to 100 (except for questions allowing multiple responses). Where percentages do not add to exactly 100, computer rounding is the cause. Throughout the tables, an asterisk (\*) signifies any value less than one-half percent.

#### **B.** DEFINITION OF CLASSIFICATION TERMS

The following definitions are provided for some of the standard demographics by which the data are analyzed. Other demographics are self-explanatory.

#### 1. Occupation

Occupation refers to the occupation of the respondent. The types of positions included in each category are shown below.

OCCUPATIONAL CLASSIFICATION	INCLUDES

Professional/Manager/Owner Executives, Professionals,
Technical and Kindred Work

Technical and Kindred Workers,

Managers, Officials and Proprietors

Proprieto

White Collar - Sales/Clerical Clerical, Office and Secretarial Workers, and Sales Agents and

Workers

Blue Collar - Skilled Craftsmen, Foremen, Kindred Workers, Maintenance Repairmen,

#### OCCUPATIONAL CLASSIFICATION

#### INCLUDES

Carpenters, Plumbers and Electricians

Blue Collar - Semi/Unskilled Operatives and Kindred Workers,

Apprentices, Laborers (except Mine),

and Assembly Line Workers

Service Workers Housekeepers in Private Household,

Institutional and Public, Police, Security Guards, Beauticians and

Barbers

#### 2. Geographic Regions

The four geographic regions are comprised of the listed states:

Northeast - Maine, New Hampshire, Vermont, Massachusetts, Rhode

Island, Connecticut, New York, New Jersey, Pennsylvania

North Central - Ohio, Indiana, Illinois, Michigan, Wisconsin, Minnesota,

Iowa, Missouri, North Dakota, South Dakota, Nebraska,

Kansas

South - Delaware, Maryland, District of Columbia, Virginia, West

Virginia, Norht Carolina, South Carolina, Georgia, Florida, Kentucky, Tennessee, Alabama, Mississippi,

Arkansas, Louisiana, Oklahoma, Texas

West - Montana, Idaho, Wyoming, Colorado, New Mexico,

Arizona, Utah, Nevada, Washington, Oregon, California

#### Income

The income groupings refer to the total household income before taxes.

#### 4. Control States

Control states include Alabama, Idaho, Iowa, Maine, Michigan, Montana, New Hampshire, North Carolina, Ohio, Oregon, Pennsylvania, Utah, Vermont, Washington, West Virginia, and Virginia.

Control is not used here in the statistical experimental sense, but rather in reference to those states where retail sales of distilled spirits is a state function rather than a private enterprise function, as it is in the remaining 34 states and the District of Columbia.

**DETAILED TABULATIONS** 

QUESTION AL

DO VOU EVER PUNCHASE DISTILLED SPIRITS BY DISTILLED SPIRITS, I MEAN HARD LIQUER, NOT BELR OK WINE

HON KNOW	52		•		•	57 1	21 0	• 96			0 09		1 99	24		36	<b>*</b>	56		61		26 0	•	51	62
YES	8			42		42					9		33		59		35							49	
NTAGE SE UTD	8280	7505	3566	3539	3934	4347	1517	11177	1338	1335	1111	1655	2189	2903	1486	1670	2305	1158	1001	995	2162	916	1810	2237	2679
PERCENTAGE BASE UNUTO UTD	2006	1619	906	116	966	1008	316	550	242	327	253	200	343	129	406	512	NCONE 299	266	255	235	₽89	267	118	520	638
	TOTAL PUBLIC	HEAD OF HOUSEHULD	MALE HEAD OF HOUSEHOLD	FEMALE HEAD OF HOUSEHOLD	MALE	FEMALE	18 - 24 YEARS OF AGE	¥ .	35 - 46	45 - 54	•	65 CH OLDER	SCHOCL	HIGH SCHOCL GRADUATE	<b>GE 16C</b> 0	COLLEGE GRADUATE	UNDER \$10,000 HOUSEHOLD INCONE	\$16,060 - \$14,999	\$15,000 - \$19,999	•	ō	<b>E</b> 0	MORTHEAST	NCRIM CENTRAL	S0U17

QUESTION AL

DO YOU EVER PURCHASE DISTILLED SPIRITS BY DISTILLED SPIRITS, I HEAN MARD LIQUER, NOT BEER OR LINE

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ų.	2 *	957	7 6 4 7 11 7 7 7	55 52 64	395	6 U +	444	575	9 <b>6</b>
17 AGE 110 110	8280	6819 1108	5403 2369 2875 1975	1669 11197 1678 1256	1544 5250 1477	3829 3611 1379	4634 2711 1616	2817 2921 2252	2616
PERCENTAGE BASE MALTO DED	2006	1701	1383 571 622 436	200	362 1346 295	781	1085 681 395	654 780 513	631 1375
	TOTAL PUBLIC	BLACK	EMPLOYED EMPLOYED FEMALE MOT EMPLOYED AGT EMPLOYED	PROFESSIONAL/MANAGER/OUMER Unite Collar - Sales/Clerical Blue Collar - Skilled Blue Collar - Seni/Unskilled	SIMELE Married Other	HOUSEHOLD OF 1 OR 2 PEOPLE 3 OR 4 PEOPLE 5 OR PORE PEOPLE	NO CHILDREN IN HOUSEHOLD CHILDREN 12 - 17	UKBAN Suburban Rural	CUMINCL STATES REMAILADER OF U.S.

QUESTION A2-1

WHAT SIZE O. SIZES OF DISTILLED SPIRITS DO YOU MCRNALLY BUY

\*\*\* CUSTOPARY SIZES \*\*\*

BASE = LIGUOR PURCHASERS

					MINIATURE 1/2 PINT PINT *FIFTH*				1/2 GALLON OTHER OTHER	<b>₹</b>	
	PERCEI BAS UNNTO	PERCENTAGE BASE Unito uto	:	5. QUART		÷	សំ	_	NO ANSBER 7.	• •	•
TOTAL PUBLIC	1055	3997	•	ĸ	91	6	27	11	•	-	•
G TON JOHON BO GE SH	678	7871	•	ď		ď		:	•	•	•
MARK OF TOUSTROLD	702			) v	3 =	3 6	, 6				- «
FEMALE NEAD OF HOUSEHOLD	421	1648	•	3 m	: =	;	2 2	==	•	· ~	<b>S</b>
HALE	568	2169	-	9	5	15	56	12	-	9	•
FEMALE	167	1828	•	m	11	•	23	01	so.	-	•
18 - 24 YEARS OF AGE	157	139	84	49	<b>36</b>	6+	20	•	•	-	•
25 - 34	311	1001	0	•	5	<b>4</b>	25	•	m	-	~
35 - 44	204	182	•	~	•	ŝ	35	=	'n	•	•
	173	649	0	•	11	90	19	13	ın	-	9
55 - 64	125	121	•	-	•	2	53	18	-	<b>-</b>	-
es ca otoga	16	350	9	m	•	21	2	=	_	•	9
HIGH SCHOOL INCOMPLETE	115	713	•	•	24	-	16	•	•	-	•
HIGH SCHOCL GRADUATE	349	1321	-	•	=	49	53	2	-	-	•
COLLEGE INCOMPLETE	241	874	~	•	13	9 \$	53	=	•	•	9
COLLEGE GRADUATE	339	1072	•	•	•	e S	30	12	C4	-	•
UNDER \$10,000 HOUSEHOLD INCOME	ME 111	818	-	•	27	9 •	56	•	V7	•	~
\$10,000 - \$14,999		512	9	•	15	9	27	6	83	~	•
\$15,000 - \$19,999	128	520	•	m	11	8	36	•	•	•	m
	122	203	-	9	91	96	61	=	ທ	9	1
125 g 0 0 0 0 M MONE	449	1391	•	~	6	53	28	13	~		•
\$35,000 OR NORE	201	909	•	-	•	49	53	11	m	-	6
	272	993	***	**	11	5	•	12	m	•	_
NORTH CENTRAL	284	1093	9	•	11	Š	20	•	9	-	•
MI TOS	261	1011		•	19	49	25	11	~	-	•
WEST.	238	900	•	n	=	<b>6</b>	2	13	•		•

QUESTION A2-1

WEAT SIZE OR SIZES OF DISTILLED SPIRITS DO YOU NCRHALLY BUY

\*\*\* CUSTOMARY SIZES \*\*\*

BASE = LIGUOR PURCHASERS

				2. 1/2 PIN 3. PINT 4. OFIFTH	NINIATURE 1/2 PINT PINT •FIFTH®				1/2 GALLON OTHER OTHER	3	
	PERCENTAGE BASE UNUTD UTD	ITAGE SE UTD	•	2.		<b>:</b>	ห์		NO ANSWER		•
TOTAL PUBLIC	1055	3997	•	£0	91	6	27	=	•	-	•
WHITE BLACK	927 TT	3436	• •	<b>-</b> 10	119	8 4 8 8	26 27	101	<b>~</b> ~		r n
			,	ı	;	•		;	•	,	•
EMPLOYED	792	2895	→ (	ស ។	91	0.0	28 7		יו מיו	<b>-</b> (	•
MOT FAPIOYED	263	1101	• •	n <b>«</b>	? :	0 4	2 2	3 :	<b>1</b> 4	٧	<b>,</b>
NOT EMPLOYED FEMALE	167	661	•	· <b></b>	11	1	=	6	•	-	ស
PROFESSIONAL/MANAGER/GNNER	338	1121	9	17	10	52	28	12	P)	4	-
WHITE COLLAR . SALES/CLERICAL	165	909	•	~	91	S	53	6	~	•	~
BLUE COLLAR . SKILLED	143	539	-	ស	20	94	3	=	~	•	•
BLUE COLLAR - SEMI/UNSKILLED	111	201	~	*	24	5	2	=	8	•	~
319818	197	00	~	•	20	20	2	~	117	•	ĸ
MARRIED	112	2540	•	m	=	90	27	15	177	-	•
OTHER	131	645	9	•	12	39	23	15	-	-	m
HOUSEHOLD OF 1 OR 2 PEOPLE	470	1859		•	13	8	23	10	•	-	-
3 OR 4 PEOPLE	412	1508	9	ĸ	11	21	28	11	~	•	ហ
S OR RORE PEOPLE	167	610	•	មា	18	F +	23	13	1	•	-
NO CHILDREN IN HOUSEHOLD	583	2225	-	•	12	25	23	10	M	-	<b>!~</b>
CHILDREM UNDER 12	346	1305	•	9	20	8	23	10	ĸ	•	S
CHILDREN 12 - 17	208	191	•	•	2	4.5	2	13	ı (C	•	S
	321	1264	•	•	13	8	27	49	•	-	•
SUBURBAN	472	1657	•	8	1	\$	88	=	•	-	9
RURAL	237	981	-	_	19	15	56	0.	•	•	2
CONTROL STATES	313	1224	•	-	:	89	14	13	•	•	M
REMAINDER OF 11.5.	142	2773	<b>~</b>	. •	16	7	33	2	•	_	•

QUESTION A2.2

WHAT SIZE OR SIZES OF DISTILLED SPIRITS DO YOU NORMALLY BUY

... NETRIC SIZES ...

BASE = LIQUOR PURCHASERS

			1244	200 H	MILLILITERS O MILLILITERS O MILLILITERS	ERS TERS TERS(1,	ILLILIERS MILL HIERS MILLILITERS(1/2 LITER) MILLILITERS		1 3/4 OTHER OTHER	1 3/4 LITERS OTHER OTHER	
	PERCE! BAS UNNTO	PERCENTAGE Base Unnto uto		1 Liles	* *	<b>:</b>	งรั		NO ANSKER 7. B.	# # # # # # # # # # # # # # # # # # #	*
TOTAL PUBLIC	1055	3997	•	0	•	N	~	O.	•	0	90
HEAD OF HOUSEHOLD MAIE HEAD OF HOUSEHOLD FERALE HEAD OF HOUSEHOLD	967 546 421	3656 2088 1648	999	<b>~3</b> 0	• • •	<b>NP</b> -	-0+	0 M H	• ~ •	<b>000</b>	98
HAL E Female	588	2169	<b>9</b>	<b>-</b> -	• •	n=	•	n =	<b>~</b> 9	<b>9</b> 6	3 4
18 - 24 YEARS OF AGE 25 - 34 35 - 44 45 - 54 55 - 64	157 204 173 125	1004		90000	*****	## # N G (	874741	•	G-10+0	909696	\$ <b>6</b> 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
BS LK ULDEN High School incomplete College incomplete College graduate	115 244 344 344	113 1321 874 1072		• • • • •		v					8 4 6 6 8 6 6 6 8 6 6 6 6
UNDER \$10,000 HOUSEHOLD INCOME \$10,000 - \$14,999 \$15,000 - \$19,999 . 5,660 OR MORE	E 1111 120 122 122 201	8 512 512 520 130 130 130 130 130 130 130 130 130 13	<b>4</b> 33000	00000	00	7 N N N N N	NG 4 P G G	- M - M - M - M	0 N O M O O		99 99 99 99 99 99 99 99 99 99 99 99 99
NORTHLAST North Central South Mest	272 284 261 238	993 1893 1011 900	<b></b>	9090	•••	7 N N N	~ · · · ·			0600	916

QUESTION A2-2

WHAT SIZE ON SIZES OF DISTILLED SPIRITS DO YOU NGRMALLY BUY

\*\*\* RETRIC SIZES \*\*\*

BASE = LIGUOR PURCHASERS

			-		SO MILLILITERS	ERS						
			%# <b>÷</b> ,	200 500 750	NILL IL ITERS MILL IL ITERS (1/2 LITER) MILL IL ITERS	TERSC1. Tersc1. Ters	72 111			LITER	v	
	PERCENT	PERCENTAGE Base	Å	1 11168	5			•	NO ANSER	K		
	UNETO	MTD	-	<b>.</b>	÷	<b>:</b>	ů	3	7:	•	•	
FOTAL PUBLIC	1055	1991	9	•	•	~	-	~	•	•	96	
WHI TE BLACK	927 TT	3436	• •	<b>:</b> 9	•	~ •	~ n	~ •	• •	<b>- -</b>	<b>6</b> 9	
	6	9	•	,	•	•	,	•	•	•	:	
EMPLOYED FEMALE	192	1167	• 4	<b>e</b> 7	• •	N =	~ M		• 4	9 4	o f	
NOT EMPLOYED	263	1101	•	•	•	· ~	•	117	•	•	2	
NOT EMPLOYED FENALE	167	199	•	•	•	7	n	-	•	•	93	
	138	1121	•	3	•	n	•	~	-	•	98	
WHITE COLLAK - SALES/CLERICAL	165	909	•	•	•	<b></b> !	<b>~</b> I	~	<b>-</b>	•	16	
BLUE COLLAR · SKILLEU BLUE COLLAR • SENI/UNSKILLEO	117	501	•	80	9 ~	70	<b>~</b> m	- 0	9 0	9 9	9 %	
SINGLE	197	100	0	9	•	•	5	•	-	•	8	
MARRIFO	712	2540	•	0	•	~	~	~	•	•	6	
OTHER	111	5 4 9	•	9	•	N	8	-	•	0	92	
	470	1859	•	•	•	<b>P7</b>	_	a	-	•	2	
3 OF 4 PEOPLE	415	1508	9	<b>3</b>	•	~	•	~	•	•	91	
5 OR MORE PEOPLE	167	610	0	a	-	N	S)	-	•	9	92	
NO CHILDREN IN HOUSEHOLD	583	2225	•	•	•	N	•	~	-	•	9	
CHILDREN UNDER 12	346	1305	0	0	•	-	ø	_	-	•	92	
CHILDREN 12 · 17	208	191	•	•	-	-	(C)	~	•	•	6	
URBAN	321	1264	•	•	•	N	•	-	-	•	6	
SUBURBAR	472	1657	•	-	•	~	•	~	•	•	90	
RURAL	237	981	•	•	•	P	•	~	•	•	96	
CONTRCL STATES	313	1224	•	•	•	М	M	~	•	a	92	
REMAINDER OF U.S.	742	2773	. •		. •	) <b>(4</b>	•	ı <b>(4</b>		•	<b>6</b>	

QUESTION AS

IN GENERAL. ARE YOU SATISFIED WITH THE BOTTLE SIZES IN WHICH HARD LIQUOR IS AVAILABLE

BASE = LIQUON PURCHASERS

	PERCENTAGE BASE	IT AGE	•	!	/RONY T-NOG
		2	2	2	MOINT do OM
TOTAL PUBLIC	1055	3997	i G	មា	•
HEAD OF HOUSEHOLD	196	3656	91	S	•
MALE HEAD OF HOUSEHOLD	546	2808	16	•	· M
FEPALE HEAD OF HOUSEHOLD	121	1646	16	•	ĸ
MALE	588	2169	16	•	143
FEMALE	191	1828	16	•	· KO
18 - 24 YEARS OF AGE	157	739	96	•	•
ï		1001	92	יני	· 173
35 - 46		782	85	•	· Kr
		643	90	'n	so.
55 - 64	125	151	-	~	•
65 CH OLDER		350	93	12	~
MIGH SCHOOL INCOMPLETE	115	713	5	m	•
MIGH SCHOCL GRADUATE	349	1321	90	ĸ	· KO
INC	211	874	68	-	•
COLLEGE GRADUATE	339	1072	91	•	**
UNDER \$10,000 HOUSEHOLD INCONE	111	818	6	•	arī
•	128	512	91	m	•
•	128	520	95	•	· N
\$20,000 - \$24,999	122	203	91	<b>10</b>	•
ă	419	1391	16	•	m
\$35,000 OR MORE	201	909	95	ĸ	m
RURTHEAST	272	593	8.1	•	1
NORTH CENTRAL	281	1693	92	ĸ	m
SULTR	261	1011	95	**	N
WEST.	238	900	90	~	. m

QUESITON AS

IN GERERAL, ANE YOU SATISFIED WITH THE BOTTLE SIZES IN WHICH HARD LIQUOR IS AVAILABLE

BASE = LIGUOR PURCHASERS

		•			
	PERCENTAGE BASE	NTAGE. Se			DON'T KNOW
	UNNI	<b>610</b>	YES	9	NO OPINION
TOTAL PUBLIC	1055	1997	91	ĸ	•
31 140	927	3436	93	•	m
BLACK	=======================================	37.1	9	1	•
EMPLOYED	192	2895	92	N.	P)
FAPLOYED FEMALE	300	1167	93	-	•
MOT LAPLOYED	263	1101	98	~	87
NOT EMPLOYED FEMALE	167	199	8	vr	7
PROFESSIONAL/MANAGER/DUNER	338	1121	91	•	m
WHITE COLLAR - SALES/CLERICAL	165	909	95	m	N
v	143	539	68	ĸ	•
•	117	201	92	•	-
19218	197	8	93	ĸ	8
MARRIED	7112	2540	91	•	<b>177</b>
OTHER	111	645	96	•	<b>.</b>
HOUSEHOLD OF 1 OR 2 PEOPLE	170	1859	90	_	m
3 OR 4 PEOPLE	412	1506	93	•	m
S OR MORE PEOPLE	167	019	90	•	•
NO CHILDREN IN HOUSEHOLD	583	2225	90	~	n
CHILDREN UNDER 12	346	3 30 5	93	*	n
CHILDREN 12 17	208	161	93	-7	•
URBAN	321	1264	32	<b>1</b> 0	m
SUBURBAN	472	1657	<b>8</b>	~	•
MURAL	237	981	95	n	≈
COMINGE STATES	313	1224	91	ın	•
REMAINDEN OF U.S.	142	2773	91	• •	- 100

QUESTION AN

WHY AREN'T YOU SATISFIED WITH THE BOTTLE SIZE IN WHICH HARD LIQUOR IS AVAILABLE

BASE = DISAPPROVAL OF SIZE PURCHASERS

			-	DONOT		ETRIC	SIZES	CLITERS	SIZES (LITERS, MILLILITERS, ETC.)	
			% <b>.</b> %	NEFO LARGER NEED SMALLE	NEFO LARGER SIZES NEEL SMALLER SIZES	SIZES	4	6		
				DIFFICULI NOT ENOUG OTHER NO ANSWER	DIFFICULI TO MAKE FRICE Not enough Sizes Offered No ansura	MAKE 17ES O	FFERED	DIFFICULT TO MAKE FAILE CONTAKISONS NOT ENOUGH SIZES OFFERED NOTHER	SNOS	
	PERCENTAGE BASE	TAGE	:							
	CNETD	4	-1	2.	'n	;	ů,	•		
TOTAL PUBLIC	55	210	23	25	~	13	=	53	•	
HEAD OF HOUSEHOLD	=	185	56	25	•	=	11	22	9	
•	33	115	2	22	17	<b>,</b>	9	21		
FEMALE HEAD OF HOUSEHOLD	13	10	15	<b>5</b> 2	•	33	•	25	•	
MALE	39	138	28	19	•	N	5	31	a	
FEMALE	16	72	2	<b>5</b>	~	35	•	5	9	
18 - 24 YEARS OF AGE	1	72	•	96	46	•	•			
- 34	=	20	•	22	1	• •	9	2		
•	•	22	13	80	•	21	9	22		
45 - 54	12	35	29	13	•	56	•	75		
) 55 - f4	49	53	36	23	-	2	<b>5</b> 6	12	9	
A 65 CR OLUER	•	45	45	13	•	1.6	16	9	•	
HIGH SCHOOL INCOMPLETE	•	25	20	20	a	9	•	9	6	
HIGH SCHOCL GRADUATE	19	67	24	23	9	11		23		
COLLEGE INCOMPLETE		56	50	31		21	ស	19		
COLLEGE GRADUATE	10	62	28	13	ĸ	មា	20	29	•	
UNDER \$10,000 HOUSEHOLD INCOME	<b>19</b>	4.5	•	32	•	11	11	45	•	
- 8146	n	1	99	•	0	ř	•	•	•	
ŧ	~	53	23	12	13	•	•	5	•	
,	•	23	13	32	•	18	31	•	•	
ş	27	29	27	21	13	-	~	32	•	
\$35,000 OR MORE	10	33	<b>58</b>	<b>5</b>	19	9	01	93	•	
NORTHEAST	15	60 101	21	;	4	F		•	•	
MORTH CENIRAL	12	5	51	· ~	· <b>~</b>	2	· •	38	, 0	
SOUTH REPORT	•	35	•	Ξ	9	21	22	6	. 9	
uest	20	69	4.3	16	6	9	•	56	• •	

QUESTION A4

WHY AREN'T YOU SATISFIED WITH THE BOTTLE SIZE IN WHICH HARD LIQUOR IS AVAILABLE

BASE = DISAPPROVAL OF SIZE PURCHASERS

		9 9 8	- 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	DON'T LIKE METRIC MED LARGER SIZES MED SNALER SIZES DIFFICULT TO MAKE MOT ENOUGH SIZES O OTHER	LIKE M ARGER WALLER ULT TO DUGH S	NETRIC 1 SIZES EN SIZES 10 MAKE SIZES 0	S IZES Paice Ffered	DOW!T LIKE METRIC SIZES (LITERS, MI MED LARGER SIZES NEED SWALLER SIZES DIFFICULT TO MAKE PRICE COMPARISONS NOT ENDUM SIZES OFFERED OTHER	SIZES (LITERS, MILLILITERS, ETC.) PRICE COMPARISONS FFERED
	BASE	E TD	-	%	÷	:	'n	j	ż
TOTAL PUBLIC	<b>87</b>	210	23	22	_	12	=	29	ø
UNITE BLACK	# F	50	22 0	24	• •	==	11 6	28 57	<b>4 3</b>
EMPLOYED FEMALE Inployed Female Not employed	8 10 10 10 10 10	136 10 11 32	71289	2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2-2-	7777	<b>5000</b>	12 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 <b>2 3 6</b>
PROFESSIONAL/MANAGER/CUNER  WHITE COLLAR ** SALES/CLERICAL  SALUE COLLAR SKILLED  HUL COLLAR - SENI/UNSKILLED	B < B B	23 23 23 24	8000	13 0 N T	+= 0		2 2 2 0	6 9 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
SINGLE Married Othea	11 50 50	34 24 24	. 2 .	2 5 6 4 55 6	240	22	<b>-</b> 21 0	22.00	<b>.</b>
HOUSEHOLD OF 1 OR 2 PEOPLE 3 OR 4 PEOPLE 5 OR MONE PEOPLE	31 18 6	131 56 22	22 61	9 7 5	17	 9 F G	2-1	29	946
NO CHILDNEN IN HOUSEHOLD CHILDREN UNDER 12 CHILDREN 12 - 17	36 13 6	1 + 2 × 4 × 5 × 5 × 5 × 5 × 5 × 5 × 5 × 5 × 5	25	# 15 15 # 15 15	122	202	6 4 9	2 2 2	
urbar Suburbar Rukal	31.0	60 114 29	422	999	119	450	029	750	<b>80</b>
CONTROL STATES REMAINDER OF U.S.	16 39	54 155	24 2	25	o •	• =	15 80	25	• •

Track St.

QUESTION AS

MOW MUCH DIFFICULTY DO YOU HAVE IN DIFFERENT BUTTLE SIZES GF THE SAME		MAKING PRICE COMPAKISONS DETWEEN Brand of Liqudr	CE CO	NP A A I S	ONS BETI	TEEN			
BASE = LIGUOR PURCHASERS									
			# % P		A LOT OF DIFFICULTY Some difficulty Not much difficulty	F1CUL 17 CUL	<u> </u>		
			÷ 66 4		NO DIFFICULTY AT ALL DON'T TAY TO MAKE PRICE	MAKE	ALL	COMP AR I SONS	
	PERCENTAGE Base	IT AGE	•						
	CNUTO	UTD	-	%	3.	<b>:</b>	ŝ	•9	
TOTAL PUBLIC	1055	3997	•	2	20	*	36	~	
0 1011 30 00 37	470	3555	•	•	•	Ç	36	,	
MANE OF THUSTON	7		P F	•		:	9 6	, ,	
FEMALE HEAD OF HOUSEHOLD	121	1648	<b>, 10</b>	27	13	Ħ	: #	ın	
	4	5169	M	•	21	:	22	•	
FEMALE	167	1026	'n	13	13	2	12	, ro	
•	157	240	-	:	76	5	•	•	
5		100	• •	: =	9 6	2		• 6	
1			•	9		; ;	, c	• •	
	173	5 4 9	- 4	•	: =	7	2 5	, =	
ł	125	151	•	1	16	35	53	6	
3	22	350	מע	NO.	18	9	21	_	
ALA (GROUNT TOURS) MOTH	1 15	713	•	¥7	1.1	9	50	ĸ	
SCHOCL	349	1321	•	1	55	E,	2	: H7	
GE INCO	244	874	~	10	52	99	<b>5</b>	•	
COLLEGE GRADUATE	339	1072	s	12	16	7	23	n	
UNDER \$10,000 HOUSEHOLD INCOME	111	918	•	91	21	32	27	•	
\$10,000 - \$14,939	120	512	~	12	22	33	20	-	
	128	520	N	2	22	90	22	m	
ī	122	201	-	=	21	38	25	n	
5	449	1391	ĸ	•	19	7	2	~	
\$35.000 OR MOKE	201	909	•	•	16	÷	25	<b>-</b>	
BOR THE AST	212	993	ø	•	20	36	<b>58</b>	m	
NORTH CENTRAL	284	1093	Ø	11	24	ň	24	~	
SOUTH	261	1011	in (	<b>o</b>	8 (	6	28	P) (P)	
uES1	238	900	m	=	81	7	22	m	

QUESTION AS

HOW MUCH DIFFICULTY DO YOU HAVE IN MAKING PRICE CONFARISONS BETWEEN UIFFERENT BOTTLE SIZES OF THE SAME BRAND OF LIQUOR

BASE = LIQUOR PURCHASERS								
						A LOT OF DIFFICULTY SONE DIFFICULTY NOT RUCH DIFFICULTY NO DIFFICULTY AT ALL DON'T TRY TO MAKE PRICE	IY IY NEL PRICE	COMPARISONS
	PERCE BA	PERCENTAGE Base						
	DENUT	uto	=	<b>?</b>	ř.	<b>;</b>	ů	•
TOTAL PUBLIC	1155	1881	•	=	20	*	*	~
31147	927	3436	•	•	21	25	56	~
BLACK	11	371	•	=	13	:	23	n
EMPLOYED	192	2895	M	10	19	11	25	•
ENPLOYED FEMALE	700	1167	•	12	=	2	E	~
NOT EMPLOYED	263	1101	•	=	22	7	23	10
NOT EMPLOYED FEMALE	167	199	•	12	21	25	28	'n
PROFESSIONAL/MANAGER/GUNER	336	1121	•	•	11	45	23	-
	165	909	m	=======================================	21	7	12	~
COLLAR	143	539	S.	=	91	=	<b>3</b> 6	m
SINE COLLAR · SERI/UNSKILLED	111	201	~	_	27	ñ	28	~
SINGLE	197	900	~	==	25	35	25	~
MAKRIED	712	2540	•	=	2	ŝ	38	m
OTHER	144	645	មា	•	77	50	27	n
HOUSEHOLD OF 1 OR 2 PEOPLE	-	1859	•	=	9	37	27	м
	412	1501	w	•	21	2	22	~
S OR MORE PEUPLE	167	610	•	-	2	22	22	n
NO CHILDREM IN HOUSEHOLD	583	2225	S.	10	-	33	56	~
CHILDREN UNDER 12	346	1305	m	=	24	*	58	~
CHILDREN 12 - 17	208	161	•	-	23	37	52	•
CNBAR	321	1261	~	13	1.0	ä	e n	•
2482393	172	1691	•	•	13	2	2	~
RURAL	237	186	•	•	24	7	23	•
CONTROL STAFES	313	1224	n	~	13	45	56	m
REMAINDER OF U.S.	713	2173	•	=	21	ž	<b>5</b> 6	~

UNAT CHANGES, IF ANY, MAYE YOU NOTICED IN MAND LIQUOR BUTTLE SIZES DURING THE PAST SEVERAL YEARS

BASE = NETRIC SIZES UNDEFINED PURCHASERS

			-		ARE JR	METRIC 25	BOTTLES ARE IN NETRIC (LITERS)
			•	TIPLE CHINES OF THE PROPERTY O			
			<b>;</b>	OTHER			
	PERCENTAGE	IT AGE	<b>:</b>	NO ANSUER	<b>E</b> .		
	BASE UNUTO	ić uto	=	2.	3.	<b>;</b>	
TOTAL PUBLIC	930	3587	27	57	91	•	
MEAD OF HOUSLHOLD	2	3275	23	29	16	•	
MALL HEAL OF HOUSEHOLD	151	1729	22	23	=	•	
FERALE HEAD OF HOUSEMOLD	392	7961	2	79	=	•	
3 18 2	6	1844	32	8	15	•	
FERRLE	136	1721	21	3	=	•	
18 - 24 YEARS OF AGE	145	641	2	19	15	•	
- A	271	193	7	4	51	•	
•	107	724	7	20	13	•	
45 - 54	151	578	53	19	=	-	
55 - 64	119	396	21	2	<b>52</b>	•	
es th older	63	303	23	8	10	•	
HIGH SCHOOL INCOMPLETE	=======================================	(9)	51	;	12	-	
HIGH SCHOOL GRADUATE	324	1226	24	;	16	•	
COLLEGE INCOMPLETE	216	183	7	•	51	•	
COLLEGE GRADUATE	276	<b>7</b>	76	<b>;</b>	15	•	
UNDER \$18,688 MOUSEMOLD INCOME	105	311	=	9	11	•	
	109	191	2	;	20	•	
815,600 : \$19,999	111	473	23	79	51	•	
\$28,000 - \$24,999	-	453	32	ត	11	•	
\$25,000 DK NOKE	380	1192	2	;	19	•	
835,000 OR NOKE	167	203	37	4.5	18	•	
HOR THE AST	235	111	56	2	20	•	
MORTH CENTRAL	255	995	<b>8</b>	19	=	•	
S00.7H	232	916	27	59	=	•	
ES 27	208	191	23	25	19	•	

į. . .

QUE STION A6

WHAT CHANGES, IF ANY, MAVE YOU NOTICED IN HARD LIQUOR BOTTLE SIZES DURING THE PAST SEVERAL YEARS

BASE = NETRIC SIZES UNDEFINED PURCHASERS

			<b>:</b> 6	BOTTLES ARE IN RETI NILLILITERS) SIZES	ARE IN TERS) SI	BOTILES ARE IN RETRIC (LITERS) MILLILITERS) SIZES MACHINES MATTER	LITERS,
	PERCE	PERCENTAGE	in i				
	BASE UNVTD 1	SE MTD		2	'n	<b>;</b>	
TOTAL PUBLIC	930	3587	23	5	16	•	
UMI JE BLACK	914	3065	22	6 17 18 18	25	••	
EMPLOYED EMPLOYED FEMALE NOT EMPLOYED NOT EMPLOYED	699 284 231	2595 1105 992 616	8 1 5 6	4 4 6 7	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	•••	
PROFESSIONAL/NANAGER/OUNER UNITE COLLAN - SALES/CLERICAL BLUE COLLAN - SKILLED S BLUE COLLAN - SENI/UNSKILLED	286 149 129 111	9 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	22 23	6.55.52	7 4 5 A	<b>.</b>	
SINGLE BARRIED OTHER	172 621 135	708 2259 612	222	7 8 8	111	<b>0 6 6</b>	
HOUSEHOLD OF 1 OR 2 PEOPLE 5 OR MORF PEOPLE 5	405 368 151	1632 1374 561	222	2 2 2	282		
NO CHILDREN IN NOUSEMOLD CHILDREN UNDER 12 CHILDREN 12 - 17	583 313 186	1953 1202 723	555	4 5 6	711	•••	
URBAN Suburban Aural	277 419 211	1123 1490 862	22	មា មា មា មា	91	•••	
CONTROL STATES REMAINDER OF U.S.	284	1128	30	7 7	117	• •	

上一日本 一年一八九八年二十十日

QUESTION AT

ARE YOU AWARE THAT HARD LIQUOR IS NOW SOLD IN NETRIC SIZES, THAT IS, BY THE MILLILITER AND LITER

BASE = UNAWARL OF SIZE CHANGE PURCHASERS

	PERCENTAGE BASE	IT AGE			1.00
	UNITO	017	YES	2	KNON
TOTAL PUBLIC	159	2629	29	:	-
-	602	2403	9	39	~
7	293	1166	7	37	-
FEMALE HEAD OF HOUSEHOLD	309	1237	57	7	8
NALE	317	1263	3	37	•
FEMALE	3+0	1366	32	F *	~
•	301	518	59	7	•
•	184	630	57		•
35 - 44	133	523	52	1+	9
45 - 54	700	113	95	60	-
55 - 64	63	314	3	53	~
Hadlo Ha Sa	÷	228	5	7	n
HIGH SCHOCL INCOMPLETE	26	582	9	39	~
HIGH SCHOOL GRADUATE	216	928	40	S.	-
9	113	540	57	7	~
COLLEGE GRADUATE	171	578	<b>3</b> 9	75	N
UNDER \$19,000 HOUSEHOLD INCOME		636	59	11	•
•		369	79	97	~
•	6	368	53	•	-
•	5	293	28	43	•
5	250	194	62	27	~
\$35,060 OR MORE	105	321	69	=	-
NOR THE AST	168	619	23	+1	~
MORTH CENTRAL	168	743	•	36	-
SOUTH	162	599	25	7	•
NES1	139	996	79	25	n

QUESTION AT

ARE YCU AWARE THAI HARD LIQUOR IS NOW SOLD IN METHIC SIZES, THAI IS, By the millitier and liter

BASE = UNAWARE OF SIZE CHANGE PURCHASERS

		PERCENTAGE	NTAGE			1000
		CNETO	ETD.	YES	2	MONX
	TOTAL PUBLIC	657	2629	s G	•	-
		575	2232	57	42	-
	BLACK	23	270	69	31	•
	EMPLOYED	480	1862	57	42	-
	ENPLOYED FEMALE	219	970	5	5	-
	NOT EMPLOYED	177	<b>166</b>	Ç	36	~
	NOT EMPLOYED FEMALE	121	964	21	7	~
	PROFESS JONAL/MANAGER/OUNER	179	631	29	•	-
	WHITE COLLAR - SALES/CLERICAL	108	101	ŝ	<b>9</b>	
	S	9	331	59	11	•
	ŧ	96	110	5	e n	-
	319818	118	519	8	•	-
3	MARRIED	-	1654	29	0 +	~
2	OTHER	50	151	62	36	~
	HOUSEHOLD OF 1 OR 2 PEOPLE	288	1204	19	20	-
	3 OR 4 PEOPLE	262	7001	99	<b>17</b>	
	5	102	101	9	39	-
	NO CHILDREN IN HOUSEHOLD	343	1367	9	36	~
	CHILDREN UNDER 12	230	906	95	P P	-
		136	550	9	39	-
	URBAN	196	926	9	39	-
	SUBUREAR	279	1031	29	39	~
	NUR AL	161	<b>189</b>	29	7	•
	CONTRCL STATES	220	894	19	39	•
	REMAINDER OF U.S.	437	1735	8	7	**

QUESTION A8

HOW DID YOU BECOME AWARE OF THE CHANGE IN LIQUOR HOTTLES TO METRIC Sizes

BASE = NETRIC SIZES DEFINED PURCHASERS

PERCENTAGE 10.  BASE  UNUTD WID 11.  FUBLIC 783 2911 2  CF NGUSCHOLD 723 2683 2  E HEAD OF HOUSEHOLD 435 1565 2  ALE HEAD OF HOUSEHOLD 288 1118 1  24 YEARS OF AGE 313 1213 1  25 YEARS OF AGE 313 1213 1  ALE HEAD OF HOUSEHOLD 288 1118 2  ALE HEAD OF HOUSEHOLD 288 1118 1  ALE HEAD OF HOUSEHOLD 180 524 3  ALE HEAD OF HOUSEHOLD 180 524 3  SCHOOL GRADUATE 238 899 2  EGE GRADUATE 238 899 2  HAST 19.999 86 346 1  HAST 19.899 879 1  HERNTAL 198 1186 1  HERNTAL 198 1186 1  HERNTAL 198 1186 1  HERNTAL 198 1186 899 1  HERNTAL 198 1186 1  HERNTAL 198 1186 899 1  HERNTAL 198 1 188 1  HERNTAL 198 1  HERNTA				- ~ ~ ~ ~ ~ ~ ~	BY MAIL FR DISPLAYS, NEUSPAPER NEUSPAPER FROM FAMIL BY READING	BY HAIL FROM LIQUOR STORES TO DISPLAYS, BROCHURES OR VERBANELS OR NEWSPAPER OR MAGAZINE ARTICL NEWSPAPER OR MAGAZINE ADVERT FROM FAMILY OR FRIENDS	FROM LIGUOR B BROCHURES B OR MAGAZII R OR MAGAZII R OR MAGAZII MG LABELS OF	LIGUOR STOCHURES OR MAGAZINE OR FRIENDS	STORES TO MOMOR VERBALLY A E ARTICLES E ADVERTISING DS BOTTLES	STORES TO HOME OR VERBALLY AT E ARTICLES E ADVERTISING DS BOTTLES	7 34 1	THE LIQUOR STARE	STORE	
Percentage   Percentage   10				: ;;	SCHOOL OTHER	80 RO	HER E	DUCAT	LONAL	SOURCE				
FUBLIC   Tell 2011   2   3   4   5   6   7   6   7   6   9		PERCEN	IT AGE	10.	T.NOO	RENEME	SER, D	1.NO	KNON					
THE HEAD OF HOUSEHOLD  THE NEAD OF HOUSEHOLD		UNUTD	OTO	:	<b>5</b>	÷	;	S.	•	7.	ċ	•	10.	
LE HEAD OF HOUSEHOLD  135 2683 2 21 0 7 4 45 91 113  ILE HEAD OF HOUSEHOLD  136 1138 1 19 0 7 4 45 91 113  ALE  ALE  CHARS OF AGE  237 126 2 2 1 7 4 45 91 113  ALE  CHOOLE INCOMPLETE  139 130 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TOTAL PUBLIC	783	2911	~	19	•	~	N)	42	m	-	=	•	
F. HEAD OF HOUSEMOLD	O CF HOUSEHOLD	723	2683	•	20	•	4	M.	42	pri	-		•	
FALE HEAD OF MOUSEMOLD 288 1118 1 19 8 6 36 3 1 19 1 19 1 19 1 19 1 19 1 19 1	LE HEAD OF HOUSEHOLD	435	1565	· ~	21	•	~	•		•	• ~		•	
AS OF AGE  313 1213 1 1213 1 1213 1 12	FEMALE HEAD OF HOUSEHOLD	288	1110	-	13	•	•	•	8	17	-	5		
ALE STATES OF AGE 110 524 3 11 6 1 7 55 4 1 15 15 15 15 15 15 15 15 15 15 15 15 1		470	1691	~	20	_	_	•	•	•	-	<b>F</b>		
- 24 YEARS OF AGE	ALE	313	1213	-	2	•	•	•	8	M	~	8	-	
232 736 2 25 6 5 5 5 5 6 7 13 12 14 5 5 7 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	24 YEARS OF	110	524	m	11	9	-	_	80	•	~	5	•	
152   566   0   18   8   4   50   3   1   11     124   443   3   16   6   13   9   30   1   2   26     99   351   1   27   12   14   5   32   3   3   3   8   1     10	ř	232	730	~	23	•	117	*	M	•	~	13	· KD	
124 443 3 16 6 13 9 30 1 2 26     124 351 1 27 12 14 5 32 3 9 10 8 8 1	**	152	266	•	18	•	•	•	20	**	-	=	9	
HALETE 78 483 55 15 8 5 32 3 9 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- S-	124	7	<b>~</b>	91	•	21	<b>6</b> 0 (	9	-	~	56	•	
NPLETE 78 483 5 18 4 10 31 7 1 16 1  UATE 238 898 2 18 11 8 5 45 2 1 12  TE 183 642 2 18 11 8 5 45 2 1 112  TE 279 878 1 22 5 6 3 46 4 1 16 1  USEHOLD INCOME 77 559 4 17 8 6 5 39 4 1 17  9 86 346 1 14 11 5 4 38 1 2 16  9 9 9 86 346 1 17 8 6 5 39 4 1 17  19 16 9 9 18 18 2 2 8 7 6 16  9 17 6 96 2 1 11  19 2 678 4 22 13 6 4 35 6 2 13  19 2 678 4 22 13 6 4 35 15  19 1 6 6 6 6 7 1 15  19 1 6 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		66	321	<b></b> - 1	5	75	<u>.</u>	<b>1</b> 0	er i	<b>~</b>	•	•	•	
NPLETE 78 463 5 16 4 4 10 31 7 1 16 1 10 1 1	CR OLDER	ee C	211	-	23	5	4	m	25	<del>-</del>	n	<b>a</b>	=	
USEHOLD INCOME 77 559 4 17 8 6 5 95 2 1 12  USEHOLD INCOME 77 559 4 17 8 6 5 39 4 1 17  9 9 9 9 9 14 17 8 10 6 9 1 1 17  9 9 9 9 9 15 1088 1 17 8 10 6 96 2 1 11  152 153 154 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	H SCHOOL INCOMPLETE	78	483	ĸ	18	•	•	10	31	_	-		Ξ	
TE 183 642 2 18 10 8 3 43 3 1 13 USEHOLD INCOME 77 559 4 17 8 6 5 39 4 1 17 9 86 346 1 14 11 5 4 38 7 0 16 9 94 384 2 22 8 7 6 38 1 2 16 9 95 94 384 2 28 5 3 2 42 7 1 11 159 551 1088 1 17 8 10 6 46 2 1 11 159 678 4 22 13 8 4 32 6 2 13 159 7 6 1 19 7 6 19 7 1 15 150 183 72 2 19 7 6 19 5 4 31 15	H SCHOCL GRADUATE	238	898	~	18	11	•	S.	45	~		12	w	
279 878 1 22 5 6 3 46 4 1 16  1MCOME 77 559 4 17 8 6 5 39 4 1 17  86 346 1 14 11 5 4 38 7 0 16  94 383 2 28 5 3 2 42 7 1 11  351 1088 1 17 8 10 6 46 2 1 11  158 506 0 20 8 13 2 42 2 1 16  192 678 4 22 13 8 4 32 6 2 13  212 827 1 19 7 7 5 44 3 1 15  186 684 0 18 5 9 5 49 3 1 12	LEGE IACONPLETE	183	642	~	=	=	•	m	7	m	-	13	_	_
INCOME 77 559 4 17 8 6 5 39 4 1 17 8 6 36 1 2 16 8 6 346 1 14 11 5 4 38 7 6 18 1 2 16 94 38 1 2 2 16 94 38 1 2 2 16 16 94 38 1 2 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	LESE GRADUATE	219	2 2 2	<b>-</b>	22	n	•	n	9	•	-	9	~	
999 86 366 2 22 8 7 6 38 1 2 16 1999 86 346 1 14 11 5 4 38 7 0 16 16 1999 99 94 381 2 28 5 3 2 42 7 1 1 11 11 11 11 11 11 11 18 1 10 6 46 2 1 1 13 11 11 11 11 11 11 11 11 11 11 11			559	•	17	•	9	S	39	•	=	17	•	
999 96 346 1 14 11 5 4 38 7 0 16 16 1999 97 86 346 1 17 8 10 6 46 2 1 11 13 13 14 15 14 15 15 15 15 15 15 15 15 15 15 15 15 15	- \$14,99	96	366	~	22	•	_	•	38	-	~	36	5	_
RE 351 1088 1 17 8 10 6 46 2 1 13 11 11 11 11 11 11 11 11 11 11 11 1	- \$19,99	96	346	-	1	=	S	•	8	~	0	16	_	-
IRE 351 1088 1 17 8 10 6 46 2 1 13 18 18 5 9 5 42 2 1 15 18 18 5 9 5 5 9 5 18 18 18 18 18 18 18 18 18 18 18 18 18	- \$24,99	94	383	~	28	v	~	~	45	~	-	=	•	
	5	351	1088	-	11	•	0	9	46	~	-	13	R.	
192 678 4 22 13 6 4 32 6 2 13 13 13 14 3 1 15 15 15 15 15 15 15 15 15 15 15 15 1	8	168	903	•	20	<b>60</b>	13	~	42	N	-	16	_	
212 827 1 19 7 7 5 44 3 1 15 193 722 2 19 7 6 7 43 3 1 16 186 684 0 18 5 9 5 49 3 1 12	THEAST	192	678	•	22		•	•	32	•	~	13		
193 722 2 19 7 6 7 43 3 1 16 186 684 0 18 5 9 5 49 3 1 12	TH CENTRAL	212	827	-	13		-		-	P.	-	-		
		193	122	٠,	5		• •	-		) <b>/</b>	-	2 -	, •	
		186	484	. =	. =	- 16	•	• •	•		-	2 -	P 0	

JULY/AUGUST EXPRESS CARAVAN

OUE STION A8

HOW DID YOU BECOME AWARE OF THE CHANGE IN LIQUOR BOTILES TO METRIC SIZES

BASE = NETRIC SIZES DEFINED PURCHASERS

			- 0 M 4 M	BY HAIL FR DISPLAYS, NEWSPAPER NEWSPAPER FROM FAMIL	<b>62</b> ~1	FROM LIQUOR ST BROCHURES OF B OR MAGAZINE R OR MAGAZINE	ES OR STORES OR A STANE A STAN	LIGUOR STORES TO HOME CHURES OR VERBALLY AT MAGAZINE ARTICLES MAGAZINE ADVERTISING R FRIENDS	<b></b>	THE LIQUOR STARE	8008	STGRE	
			4-56	BY REAL ON RAD SCHOOL OTHER	BY READING LABELS ON BOTTLES ON RADIO OR TELEVISION SCHOOL OR OTHER EDUCATIONAL OTHER	ABELS TELEV	ON BO	LABELS ON BOTTLES R TELEVISION OTHER EDUCATIONAL SOURCE	URCE				
	PERCE	PERCENTAGE BASE	10.	DONeT	RENEMBERO		DON.T KNOW	707					
	UNETO	Q T D	:	<b>5</b> °	ë.	<b>:</b>	ů	•	:	•	•	10.	
TOTAL PUBLIC	7,83	2911	N	19	•	-	ß	42	m	-	:	•	
31 IN	681	2476	~ 1	19	~ ;	-	SO I	= 1	•	-	+	9	
BLACK	61	<b>586</b>	m	22	=	7.5	_	27	•	<b>17</b>	 	S	
EMPLOYED	592	2695	-	21	-	•	•	F. +	P7	7	14	9	
ENPLOYED FEMALE	202	164	-	19	•	91	113	38	m	~	=	0	
	191	815	n	16	11	9	•	39	•	-	=	9	
NOT EMPLOYED FEMALE	111	449	-	11	13	•	=	38	N	-	11	9	
F PHOFESSIONAL/MANAGER/OUNER	267	859	ø	21	ß	•	ĸ	:	•	-	15	•	
•	118	420	m	23	_	1	~	45	~	~	10	6	
	107	<b>+</b> 0 <b>+</b>	-	20	12	•	~	7	ស	-	13	ß	
HLUE COLLAR - SERI/UNSKILLED	8	351	~	16	v	<b>6</b>	ហ	9 •	ເດ	-	15	~	
SINGLE	142	563	m	19	~	s	G	51	<b>10</b> 7	m	10	•	
MARRIED	529	1867	~	19	•	~	'n	7	•	-	15	_	
OTHER	110	474	~	22	æ	•	s.	37	-	-	=	1	
HOUSEHOLD OF 1 OR 2 PEOPLE	354	1383	8	20	•	•	•	÷	m	-	13	ĸ	
S OR 4 PEOPLE	299	1069	æ	19	<b>~</b>	•	9	<b>•</b>	•	-	14	_	
S OR NORE PEOPLE	127	451	9	11	_	S.	-	43	n	-	18	9	
NO CHILDREN IN HOUSEHOLD	145	1676	~	21	4	•	•	42	•	-	12	ស	
CHILDREN UNPER 12	247	908	-	11	•	ĸ	•	÷	m	-	17	_	
CHILDREN 12 - 17	155	570	-	13	9	4	œ	£.	~	-	11	3.0	
*******	242	929	74	21	6		-	7	m	•	14	٠	
SUBURBAN	362	1237	~	20	6	6	~	•	~	~	=	•	
RURAL	165	163	•	16	•	S	•	45	•	~	12	. 0	
CONTRGE STATES	224	871	•7	1.9	12	•	~	5	4	-	2.0	Œ	
	559	2040	·	13	9	<b>.</b>	•	2 4	. m	۰ ۵	12	S	

CUSTOFARY USERS \* KNOWLEDGE OF METAIC EQUIVALENTS

HASE = KNCHLLDGEBILITY OF NETRIC SIZE PUBLIC

				ALL AN	SEL RS	ALL ANSEERS CORRECT		
			ล์ คั	SONE ALL AN	NSHERS	SOME ANSWERS CORRECT/SOME INCORRECT ALL ANSWERS INCORRECT	INCORRECT	
	PERCENTAGE BASE	ITAGE	÷	DON'T KNOD				
	UNUTO	uro T	-	*	ř	<b>:</b>		
TOTAL PUBLIC	658	2501	52	•	76	5.9		
SEAD OF HOUSEHOLD	909	2383	15	•	15	99		
MALE HEAD OF HOUSEHOLD	347	1286	17	•	1	63		
FEMALE HEAD OF HOUSEHOLD	259	1017	12	m	16	69		
ALE	376	1395	17	ĸ	15	63		
EMALE	282	1106	13	n	11	19		
8 - 24 YEARS OF AGE	96	167	23	•	20	23		
- A	192	619	15	m	2	3		
2 - 44	135	509	=	•	10	29		
5 - 54	102	372	=	~	21	99		
55 · 64	F 89	596	_	•	18	63		
S CR OLDER	45	229	11	KO	9	12		
HEN SCHOOL INCOMPLETE	73	453	10	•	•	62		
IIGH SCHOCL GRADUATE	213	803	12		=	73		
COLLEGE INCOMPLETE	155	551	=	~	21	28		
OLLEGE GRADUATE	216	692	55	•	19	15		
INDER \$10,000 HOUSEHOLD INCOME	INE 71	216	23	m	11	63		
110,000 - \$14,999	15	318	13	-	16	70		
	75	305	•	9	16	69		
٠	00	329	15	<b>-</b> 7	18	19		
ă	282	889	15	43	18	62		
135 . LCO OR MORE	134	407	17	~	11	29		
IORTHEAST	155	262	13	ın	19	63		
IORTH CENTRAL	183	129	=	n	15	99		
SOUTH SOUTH	164	628	12	S	13	29		
16.5.1	156	58.1	3.8	M	17	62		

JULY/AUGUST EXPRESS CARAVAN

QUESTION A9

CUSIOFART USERS ANDULEDGE OF METRIC EDUIVALENTS

MASE = MNONLEGGEBILITY OF METRIC SIZE PUBLIC

		1. 2.		ANSWERS CORRECT ANSWERS CCRREC ANSWERS INCORRE	SC	ALL ANSWERS CORRECT SOME ANSWERS CCRRECT/SOME INCORRECT ALL ANSWERS INCORRECT	INCORRECT
PERCENTAGE RACE	TASE	<b>÷</b>	200 00	BON'T TOO			
UNUTO	MID		~	2. 3	»,	÷	
658	2501	15		-	16	<b>3</b>	
568	2104	91			9	•	
21	272	•		<b>~</b>	13	80	
499	1795	15			16	5	
186	702	13		3	11	19	
159	306	15			17	89	
96	101	13			16	89	
215	101	26		<b>1</b>	11	26	
102	364	4		*	18	69	
2	351	14		-	9 [	99	
7.0	334	2		2	==	11	
117	194	23		1	19	51	
438	1586	13		•	1	69	
101	<b>0 1 0</b>	11		1	•	19	
289	1156	2.0		2	23	62	
255	935	=		<b>~</b>	36	99	
111	102	-			91	75	
365	1 003	91		4	16	62	
214	908	12		2	16	67	
133	503	11			12	ĭ	
196	788	=		7	1	10	
309	1070	=		•	18	63	
139	<b>298</b>	20			~	<b>6</b> .0	
195	375	13		Y Y	11	41	
163	1726	16			15	19	

QUE STION ALO

PLEASE TELL ME AS MANY OF THE NEW NETRIC SIZES OF HARD LIQUOR AS YOU CAN

BASE = METRIC SIZE ANARENESS PURCHASERS

			- 444	50 0 200 500 756	59 MILLILITERS 200 MILLILITERS 500 MILLILITERS 750 MILLILITERS		(1/2 LITER)	ER)		
				5	1 LITER 1 3/4 LITERS (1.75 LITERS) ODHER MODEL FOOTE	. C1.75	LITER	S		
	PERCENTAGE BASE Unuto utd	NT AGE SE NTD		2.			in	4	,	ď
TOTAL PUBLIC	783	••	-	-	2	:	33	•	•	20
HEAD OF MCUSEHOLD	723	2683	~	~	2	=	62	•	•	8
MALE HEAD OF HOUSEHOLD FEMALE HEAD OF HOUSEHOLD	435 288	1565 1118	<b> •</b>	~ =	2 9	<b>*</b> 50	7%	<b>=</b> °	•-	5 42
HALE Ferres	470	1698	→•	~ =	29	<b>4</b> m	2 % 2 %	11 8	62	55
18 - 24 YEARS OF AGE	110	524	•	~	=	15	1.	m	15	39
₩ -	232	730	-	-	12	-	<b>\$</b>	~	•	4
35 - 44	152	266	•	-	•	=	38	•	•	25
42 - 24	124	717	•	æ	•	•	<b>%</b>	_	~	<b>9</b> 6
55 - 64	65	351 FF6	~ 6	r	ne	<b>L</b> 4	27	<b>1</b>	<b>10</b> C	63
מס נא פנסנא	7		•	,	•		5	3	<b>u</b>	Ť
HIGH SCHOCL INCOMPLETE	78	163	~ 0	9 -	<b>~</b> ¥7	ф <b>ч</b>	22	<b>~</b> @	~ 4	9 6
OF INCO	183	642	•	~	91	~	6	•	1	42
CULLESE GRADUATE	279	976	-	N	16	10	ń	10	1	52
UNDER \$10,000 MOUSEHOLD INCOME	E 77	559	•		:	16	25	•	•	ğ
ŧ	96	366	•	•	•	10	23	ស	10	6
ŧ	9	346	~	~	•	•	37	•	•	š
\$20,000 ~ \$24,999	6	363	•	ß	2	•	2	•	~	53
\$25,000 CK MORE	351	1088	-	-	•	=	<b>?</b>	11	•	;
\$35,640 OR NOHE	168	206	-	-	5	12	11	5	11	?
E08112 AS1	192	679	•	-	=	•	45	-	10	4
NORTH CENTRAL	212	827	•	~	~	10	39	•	~	20
SOUTH	193	722	-	~	=	6	39	•	_	25
WEST.	186	₽89	-	-	Ξ	:	37	11	~	?

QUESITON ATO

PLEASE TELL ME AS MANY OF THE NEW NETRIC SIZES OF MAND LIQUOR AS YOU CAN

BASE = METRIC SIZE AVARENESS PURCHASERS

			~ % A 4	50 MILLILITERS 200 MILLILITERS 500 MILLILITERS 750 MILLILITERS	MILL IL ITERS MILL IL ITERS MILL IL ITERS MILL IL ITERS	RS ERS ERS CL ERS	(1/2 LITER)	E 3		
				1 LITER 1 3/4 L! OTHER None/DOI	1 LITER 1 3/4 LITERS (1.75 LITERS) OTHER NONE/DON'T KNOW	(1.75 Now	LITER	S		
	PERCENTAGE BASE	NY AGE Se	}		<b>!</b>		1			
Sect. S	CX		=	<b>.</b>	÷	<b>;</b>	พื้	•	<b>.</b>	4
TOTAL PUBLIC	783	2911	-	-	10		65	•	•	Ŋ
UNITE BLACK	681	2476 286	• •	= 4	2 4	=-	23	<b>.</b>	<b>e</b> n	7 4
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EMPLOYED SCHALE	200	2695	<b>→</b> •	<b>~</b> •	= 1	=	7 5	<b>~</b> #	<b>.</b>	<b>◆</b> R
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### APPLIED CONCEPTS CORPORATION

### IV. TECHNICAL APPENDIX

(Provided by Opinion Research Corporation)

# Caravan Express Telephone Sampling Methodology

The essential characteristic of probability sampling is that, for each household in the universe under study, the probability that it will be included in the sample can be specified. This means that the degree of reliability of any finding from a study based on a probability sample can be estimated mathematically.

methods which involve selecting listed phone numbers and then changing the last digit or two. This method suffers from defects which do not allow it to be strictly called a probability sample. One problem is that it is more likely for listed phone numbers, or unlisted numbers in The sample design used for Caravan Express surveys is a major improvement over other standard close proximity to listed numbers, to be reached. Another problem involves the difficulty of maintaining up-to-date telephone directories.

The new sampling plan used to generate the sample for Caravan Express surveys is Two-Stage Random-Digit Dialing. This design gives all household telephones, both listed and unlisted, an equal probability of selection and minimizes the number of calls to nonresidential te lephones.

This sampling procedure requires two stages, because instead of generating complete numbers at random, we generate a bank of numbers, then sample again within this bank.

The first step in this procedure is to list all possible area codes and three-digit prefixes for the continental United States. ORC obtains this list from AT&I on a computer tape every six months. From these six-digit numbers we randomly generate, with replacement, complete telephone numbers by adding four-digit random numbers to the area code-prefix combinations.

Each telephone number generated will be used to define a bank of 500 numbers, which is used as a Primary Sampling Unit (PSU). For example, if the number 609-924-5968 had been generated, the corresponding PSU would be all numbers between 609-924-5500 and 609-924-5999.

Therefore, we are selecting PSU's with probability propor-The initial telephone number used to define a PSU is called and, if the number is a residential number, then the entire bank of 500 numbers is retained. If it is a nonworking or business listing, then the PSU is discarded. Therefortional to the number of residential phones. The second stage of sampling is conducted within each PSU chosen by the above procedure. This stage consists of randomly, without replacement, drawing a sample of telephone numbers. At this stage it is expected that over 60% of the telephone numbers will be residential. The 60% residential is derived from a number of ORC and non-ORC studies. Even though these studies have mostly used PSU's of 100 telephone numbers, it reasonable to assume that the results for PSU's of 500 will not be different.

To ensure that the sample is distributed properly, the two-stage procedure is conducted within each census region. This stratified sample is distributed proportionally to the number of households in each region. A major advantage of this two-stage sampling plan is that a given telephone sample will contain more current numbers than are reachable by using the random increment approach. Upon reaching the household to be reviewed, the person answering the phone is interviewed, providing he/she meets the age requirement of 18 or over and falls within the sample quota of 50% male and 50% female.

The sampling procedure is rigorous in concept and practice, and allows for the exact determination of the statistical precision of any finding.

## Weighting Telephone Survey Results

Once all interviews have been completed, weighting procedures are employed to ensure that the sample properly represents the population from which it was drawn.

The ORC probability sample is selecta with utmost care and the estimates of population characteristics from the sample are improved by minimizing the sampling error for the particular sample used.

the variable is Y. Then Y may vary from X in two ways. First, ther will be variation in sample estimate of Assume the true value of some variable being investigated is X and

estimates from one sample to the next. This variation between the sample estimates can be reduced by increasing sample size and by stratification.

The second way Y can vary from X is not dependent on sample size. If, for any reason, the individuals actually interviewed are not a representative cross-section of the population, then increasing sample size will make estimates Y cluster closer around a value different from X; that is, the results will be biased.

Sample demographic distributions are compared with known data for the universe -- region, age, sex, eduction, type of area, income and race. If necessary, a weight factor is applied to adjust for varying completion rates within demographic subgroups.

The typical demographic distributions looked at closely are:

Age -- 18-29; 30-39; 40-49; 50-59; 60+

Sex -- Male; Female

Race -- White; Non-white Education -- 8th grade or less; High school incomplete; High school complete; Some college

or more Income -- Under \$5,000; \$5,000 - \$14,999; Over \$15,000

Type of Area -- Metro; Non-Metro

Region -- Northeast; North Central; South; West

decided that a good rule of thumb is to use a maximum ratio in the weights applied to a general public sample of 10 to 1. Thus, after obtaining weights, they are scaled and then the largest weights clipped such that a ratio of 10 to 1 in largest to smallest weight is between exact weights and a very high variation between weights. From experience, we have variance is also being increased by the weighting itself. A compromise is thus called for while bias and sample variance due to some causes are being reduced by weighting, sample Not surprisingly, there is a price for weighting. The effect of unequal weights is to reduce the effective sample size (i.e., to increase the sample variance). Thus, even

# Sample Characteristics, July/August Caravan Express

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The data in the table below compare the characteristics of the weighted  $^{1/}$  Caravan sample with those of the total population, 18 years of age or over. The table shows that the distribution of the total sample parallels that of the population under study.

	lotal	ł
	Popu-2/	Caravan Sample
Age		
18 - 24 years of age	18%	181
25 - 34 25 - 44	22 16	23 16
45 - 54	15	16
•	13	*
65 or older	16	13
Geographic Region		
Northeast	22%	22%
North Central	<b>5</b> 2	27
South	33	32
West	19	19

1/ Weights were introduced into the tabluations to ensure proper representation of the interviews in the sample.

2/ Source: Latest data from the U.S. Bureau of the Census, regular and interim reports.

## Reliability of Survey Percentages

Results of any sample are subject to sampling variation. The magnitude of the variation is measurable and is affected by the number of interviews and the level of the percentages expressing the results.

The table below shows the possible sample variation that applies to percentage results reported from the Opinion Research Corporation sample. The chances are 95 in 100 that a Caravan Express survey result does not vary, plus or minus, by more than the indicated number of percentage points from the result that would be obtained if interviews had been conducted with all persons in the universe represented by the sample.

Size of Sample on Which Survey Result Is Based	Approximate Sampling Tolerances Applicable to Percentages at or Near These Levels 10% or 90% 50%	or Near These	pplicable Levels 50%
1,000 interviews	2%	3%	3%
500 interviews	3%	4%	4%
250 interviews	4%	<b>X</b> 9	<b>X</b> 9
100 interviews	<b>19</b>	<b>3</b> 6	10%

Sampling Tolerances When Comparing Two Samples

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Tolerances are also involved in the comparison of results from different parts of any one Opinion Research Corporation sample and in the comparison of results between two different ORC samples. A difference, in other words, must be of at least a certain size to be considered statistically significant. The table below is a guide to the sampling tolerances applicable to such comparisons.

Cize of Camples	Differences Required or Near The	Differences Required for Significance at or Near These Percentage Levels 1/	ince at s 1/
Compared	10% or 90%	30% or 70%	20%
1,000 and 1,000	34	4 %	*
1,000 and 500	3\$	5%	5%
500 and 500	<b>4</b> 4	<b>%9</b>	<b>1</b> 9
500 and 200	25	8%	8%
200 and 200	<b>19</b>	<b>x</b> 6	10%
200 and 100	7%	11%	12%
100 and 100	8%	13%	14%

1/ Based on 95 chances in 100.

### Quality Control Measures

Quality control measures are applied in every phase of the Caravan Express survey.

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Interviewers are hired and trained in person, and their work is regularly checked for accuracy and validity. Interviewers who work on Caravan Express surveys and interviewing supervisors are carefully briefed regarding the questionnaires and interviewing procedures.

Since interviewing is conducted from a central location, the interviewers are monitored constantly. Questionnaires are prepared for data processing by experienced coders, under the supervision of the survey director.

The processing of data is subject to rigorous internal checks designed to detect both machine and human error.

### DATE